A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16K11/044

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16K B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 306 428 A (TONNER JOHN B) 26 April 1994 (1994-04-26) cited in the application the whole document	1-19
A	DE 35 14 899 A (GUR ARIE) 23 January 1986 (1986-01-23) page 6, paragraph 4 - page 9, paragraph 1 figures	1-19
A	WO 88/06690 A (TOUR & ANDERSSON AB) 7 September 1988 (1988-09-07) page 3, paragraph 8 - page 7, paragraph 2 page 11, paragraph 3 - page 13, paragraph 2 page 14, paragraph 4 - page 16, paragraph 2 figures 1-9	1-19
X Furthe	er documents are listed in the continuation of box C. X Patent family members	are listed in annex.

° Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
16 September 2004	28/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Ceuca, A-N
Form PCT/ISA/210 (second sheet) (January 2004)	

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 195 40 580 A (HONEYWELL AG) 7 May 1997 (1997-05-07) the whole document	1-19
A	US 5 306 429 A (CALTON GARY J ET AL) 26 April 1994 (1994-04-26) cited in the application the whole document	1
		·
_	ntlnuation of second sheet) (January 2004)	

Information on patent family members

International Application No

TEI/IL2004/000471

Below A. A		161/122004/0004/1				
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5306428	Α	26-04-1994	NONE			·
DE 3514899	Α	23-01-1986	IL	72458 <i>F</i>	 4	 12-07-1990
			DE	3514899 A		23-01-1986
			ES	8607517 A		01-11-1986
			JP	61031899 A		14-02-1986
WO 8806690	<u></u> .	07-09-1988	SE	456689 B		
			ĂŪ	1424388 A		24-10-1988
			DK	606888 A	-	26-09-1988
			ĒΡ	0418222 A	1 ,D, 11	01-11-1988 27-03-1991
			FI	88821 B		31-03-1991
			NO	884855 A		01-11-1988
			SE	8700924 A		06-09-1988
			MO	8806690 A		07-09-1988
DE 19540580	Α	07-05-1997	DE	19540580 A	1	07-05-1997
US 5306429	Α	26-04-1994	AU	688284 B	2	12-03-1998
			AU	5408994 A		24-05-1994
			CA	2146358 A		11-05-1994
			EP	0666835 A		16-08-1995
•			JP	8502690 T	-	26-03-1996
			WO	9410096 A	1	11-05-1994

Corrected Version

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL2004/000471

			FC1/1L2004/0004/1	
A. CLASS	F16K11/044			
1	to International Patent Classification (IPC) or to both national class	sification and IPC		
	SEARCHED			
110 /	ocumentation searched (classification system followed by classifi F16K B01D			
	ation searched other than minimum documentation to the extent the			
	data base consulted during the international search (name of data in ternal, WPI Data, PAJ	base and, where practical, se	arch terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	
Α	US 5 797 429 A (SHUMWAY ET AL) 25 August 1998 (1998-08-25) column 5, line 21 - column 8, l figures	ine 41	1-19	
Α	US 5 306 428 A (TONNER JOHN B) 26 April 1994 (1994-04-26) cited in the application the whole document	1-19		
A	DE 35 14 899 A (GUR ARIE) 23 January 1986 (1986-01-23) page 6, paragraph 4 - page 9, p figures	aragraph 1	1-19	
X Furth	er documents are listed in the continuation of box C.		bers are listed in annex.	
° Special cat	egories of cited documents :			
conside	nt defining the general state of the art which is not pred to be of particular relevance ocument but published on or after the international	cited to understand the invention	ed after the international filing date t in conflict with the application but a principle or theory underlying the	
"L" documen which is citation	tle It which may throw doubts on priority claim(s) or s cited to establish the publication date of another or other special reason (as specified) It referring to an oral disclosure, use, exhibition or	involve an inventive st "Y" document of particular r cannot be considered	elevance; the claimed invention novel or cannot be considered to ep when the document is taken alone elevance; the claimed invention to involve an inventive step when the	
oiner m P* documer	eans It published prior to the international filing date but an the priority date claimed	ments, such combinati in the art.	with one of more other such docu- on being obvious to a person skilled	
	ctual completion of the international search	"&" document member of the Date of mailing of the in	e same patent family ternational search report	
29	April 2005	2 9 APR 2005		
Name and ma	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016	Authorized officer Ceuca, A-	N	
	(leuca, A-	14	

Corrected Version

INTERNATIONAL SEARCH REPORT

International Application No
PCT/I L2004/000471

(Ca=1)=	DOCUMENTS CONSIDERED TO BE BELLEVANT	PCT/IL2004/000471		
(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
-0,		naevani lo ciam No.		
	WO 88/06690 A (TOUR & ANDERSSON AB) 7 September 1988 (1988-09-07) page 3, paragraph 8 - page 7, paragraph 2 page 11, paragraph 3 - page 13, paragraph 2 page 14, paragraph 4 - page 16, paragraph 2 figures 1-9	1-19		
	DE 195 40 580 A (HONEYWELL AG) 7 May 1997 (1997-05-07) the whole document	1-19		
	US 5 306 429 A (CALTON GARY J ET AL) 26 April 1994 (1994-04-26) cited in the application the whole document	. 1		

Corrected Version

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2004/000471

				· · · · · · · · · · · · · · · · · · ·	.00 1/ 000 4/ 1
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5797429	Α	25-08-1998	EP IL WO	0895567 A2 126186 A 9736124 A2	10-02-1999 20-05-2001 02-10-1997
US 5306428	Α	26-04-1994	NONE		
DE 3514899	Α	23-01-1986	IL DE ES JP	72458 A 3514899 A1 8607517 A1 61031899 A	12-07-1990 23-01-1986 01-11-1986 14-02-1986
WO 8806690	A	07-09-1988	SE AU DK EP FI NO SE WO	456689 B 1424388 A 606888 A ,B, 0418222 A1 88821 B 884855 A ,B, 8700924 A 8806690 A1	24-10-1988 26-09-1988 01-11-1988 27-03-1991 31-03-1993 01-11-1988 06-09-1988 07-09-1988
DE 19540580	Α	07-05-1997	DE	19540580 A1	07-05-1997
US 5306429	A	26-04-1994	AU AU CA EP JP WO	688284 B2 5408994 A 2146358 A1 0666835 A1 8502690 T 9410096 A1	12-03-1998 24-05-1994 11-05-1994 16-08-1995 26-03-1996 11-05-1994

Form PCT/ISA/210 (patent family annex) (January 2004)